

Motor Reversing Switches

Thermal current
16 - 100 A



1-0-2

Type	Thermal current I_{th}	Code No.	Type, layout and symbol	Weight [g]	Packaging [pcs]
CS 16 11 U	16A	004773139		140	1
CS 25 11 U	25A	004773140		160	
CS 32 11 U	32A	004773141		220	
CS 40 11 U	40A	004773142		375	
CS 63 11 U	63A	004773143		500	
CS 80 11 U	80A	004773144		840	
CS 100 11 U	100A	004773145		845	

Connection diagram in technical data



L-0-P

Type	Thermal current I_{th}	Code No.	Type, layout and symbol	Weight [g]	Packaging [pcs]
CS 16 11 U LOP	16A	004773146		145	1
CS 25 11 U LOP	25A	004773147		165	
CS 32 11 U LOP	32A	004773148		225	
CS 40 11 U LOP	40A	004773149		380	
CS 63 11 U LOP	63A	004773150		505	
CS 80 11 U LOP	80A	004773151		845	
CS 100 11 U LOP	100A	004773152		850	

Connection diagram in technical data

General Emergency ON-OFF switches version LK with padlocking in "0"

Thermal current
25 - 100 A

- Emergency switch makes an electrical separation between electrical supply and electrical equipment
- Control handle is red according to standards, and the plate behind is yellow
- Emergency switch can be locked in open position "0" with up to three padlocks.



1-pole

Type	Thermal current I_{th}	Code No.	Type, layout and symbol	Weight [g]	Packaging [pcs]
CS 25 90 U LK	25A	004773056		130	1
CS 32 90 U LK	32A	004773057		155	
CS 40 90 U LK	40A	004773058		220	
CS 63 90 U LK	63A	004773059		340	
CS 80 90 U LK	80A	004773060		455	
CS 100 90 U LK	100A	004773061		520	

Connection diagram in technical data



2-pole

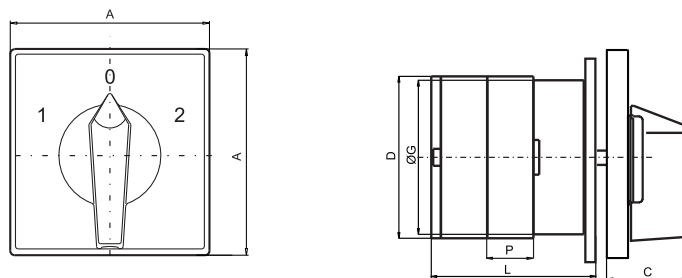
Type	Thermal current I_{th}	Code No.	Type, layout and symbol	Weight [g]	Packaging [pcs]
CS 25 91 U LK	25A	004773062		130	1
CS 32 91 U LK	32A	004773063		155	
CS 40 91 U LK	40A	004773064		220	
CS 63 91 U LK	63A	004773065		340	
CS 80 91 U LK	80A	004773066		455	
CS 100 91 U LK	100A	004773067		520	

Connection diagram in technical data

Rotary Cam Switches

Technical data											
Type			CS 10	CS 16	CS 25	CS 32	CS 40	CS 63	CS 80	CS 100	
Rated insulation voltage	U_i	V	400	400	690	690	690	690	690	690	
Rated impulse withstand voltage	U_{imp}	kV	4	4	6	6	6	6	6	6	
Rated thermal current	I_{th}	A	16	20	25	32	50	70	85	100	
Main switch IEC 60947 (III/3)	Max. value of rated operational voltage	V	400	400	480	480	480	480	480	480	
	Rated impulse withstand voltage	kV	4	4	4	4	4	4	4	4	
Max. fuse size for short-circuit protection gL 10kA		A	16	20	25	32	40	63	80	100	
Rated short-time withstand current I_{cw}	1 sec	A	200	250	400	600	800	800	1000	1800	
	3 sec	A	120	10	250	400	530	700	800	900	
	10 sec	A	70	80	140	240	290	350	400	450	
	30 sec	A	40	50	90	150	200	250	250	300	
	60 sec	A	30	40	70	120	150	150	160	200	
Rated operational current $I_{c AC1/AC21}$		A	10	16	25	32	40	63	80	85	
Rated operational current $I_c AC15$	110/120 V	A	8	10	20	25	40	50			
	220/230 V	A	6	8	20	25	30	40			
	380/400 V	A	4	6	16	20	25	40			
	660/690 V	A			8	8,5	8,5	10			
Motor switch in utilisation category AC3/AC23	3 phase	220/230 V	kW	2,5/3	3/5	5,6/6,5	7,6/8	9/9	11/15	12/18,5	19/22
		380/400 V	kW	4/6	5/7,5	7,5/11	11/15	15/18,5	18,5/22	22/32	32/37
		500/690 V	kW			11/11	15/18,5	19/22	22/30	28/45	42/55
	1 phase 2 poles	110/120 V	kW	0,8/0,8	0,8/0,8	1,5/1,5	2,5/2,5	2,5/3	3/3,5		
		220/230 V	kW	1,5/1,7	2,2/2,5	3/3,7	4,8/5	5,5/6	6/9		
		380/400 V	kW	2,2/3	3/3,7	5,5/5,5	6,5/7,5	7,5/9	11/15		
Motor switch in utilisation category AC4	3 phase	220/230 V	kW	1,2	1,5	2,5	3	5	6	7	9,5
		380/400 V	kW	1,8	3	4	5,5	8	11	12	16
		500/690 V	kW			4	7,5	8	11	12	16
Mechanical endurance	switching cycles	10^6	3	3	3	3	3	2	2	2	
Terminal screw			M3,5	M3,5	M35	M4	M5	M5	2xM5	2xM5	
Screw head						(+,-) PZ2				(-)	
Tightening torque			0,8	0,8	0,8	1,2	1,8	2	2	2	
Cable cross-section	Rigid	mm ²	2x(1-2,5)	2x(1-2,5)	2x(1-4)	2x(2,5-6)	2x(2,5-10)	2x(4-16)	10-25		
	Flexible	mm ²	2x(1-2,5)	2x(1-2,5)	2x(1-4)	2x(2,5-6)	2x(2,5-6)	2x(4-16)	6-25, 2x(6-10)		
Protection degree of terminals			IP20						IP00		
Permissible ambient temperature		°C	-25 ... +55								
Standards			IEC 60947-3, VDE 0660, EN 60947 - 3								

Dimensions



Type	Marking					Number of elements (L/mm)											
	A	C	D	ØG	P	1	2	3	4	5	6	7	8	9	10	11	12
CS 10	48	26	38,6	38,6	12,8	32,5	45,3	58,1	70,9	83,7	96,5	109,3	122,1	134,9	147,7	160,5	173,3
CS 16	48	26	38,6	38,6	12,8	32,5	45,3	58,1	70,9	83,7	96,5	109,3	122,1	134,9	147,7	160,5	173,3
CS 25	48	26	45,2	38,6	12,8	32,5	45,3	58,1	70,9	83,7	96,5	109,3	122,1	134,9	147,7	160,5	173,3
CS 32	65	33	53	38,6	12,8	37	49,8	62,6	75,4	88,2	101	113,8	126,6	139,4	152,2	165	177,8
CS 40	65	33	61	56,4	17,5	50,6	68,1	85,6	103,1	120,6	138,1	155,6	173,1	190,6	208,1	225,6	243,1
CS 63	65	33	61	56,4	17,5	50,6	68,1	85,6	103,1	120,6	138,1	155,6	173,1	190,6	208,1	225,6	243,1
CS 80	90	41	84	80	25	67,5	92,5	117,5	142,5	167,5	192,5	217,5	242,5	267,5	292,5	317,5	342,5
CS 100	90	41	84	80	25	67,5	92,5	117,5	142,5	167,5	192,5	217,5	242,5	267,5	292,5	317,5	342,5